**SUMMARY**

USC ID/s: 3767844429,

M+N

Time in MS (Basic)

Time in MS (Efficient)

Memory in KB (Basic)

Memory in KB (Efficient)

16

0.06389617919921875

0.17881393432617188

10976

12016

64

0.6361007690429688

1.9850730895996094

11248

12176

128

2.3508071899414062

7.283210754394531

11552

11696

256

9.13095474243164

23.714065551757812

11184

12448

384

19.037961959838

867

47.94001579284668

11696

12480

512

31.6159725189209

81.77804946899414

11696

11872

768

65.34814834594727

178.1461238861084

12416

12496

1024

110.83698272705078

306.0750961303711

13488

12320

1280

172.868013381958

501.6160011291504

15056

12272

1536

243.7739372253418

684.2639446258545

16672

12576

2048

433.01892280578613

1207.2718143463135

20736

12784

2560

680.4287433624268

1871.5667724609375

26496

12528

3072

957.3462009429932

2663.3288860321045

31728

12272

3584

1332.270860671997

3623.5570907592773

29408

12672

3968

1649.3370532989502

4458.108901977539

20624

13136

Datapoints

Insights

Graph1 – Memory vs Problem Size (M+N)

[Add Graph1 here]

Nature of the Graph (Logarithmic/ Linear/ Exponential)

Basic:

Efficient:

Explanation:

Graph2 – Time vs Problem Size (M+N)

[Add Graph2 here]

Nature of the Graph (Logarithmic/ Linear/ Exponential)

Basic:

Efficient:

Explanation:

Contribution

(Please mention what each member did if you think everyone in the group does not have an equal contribution, otherwise, write “Equal Contribution”)

<USC ID/s>: <Equal Contribution>